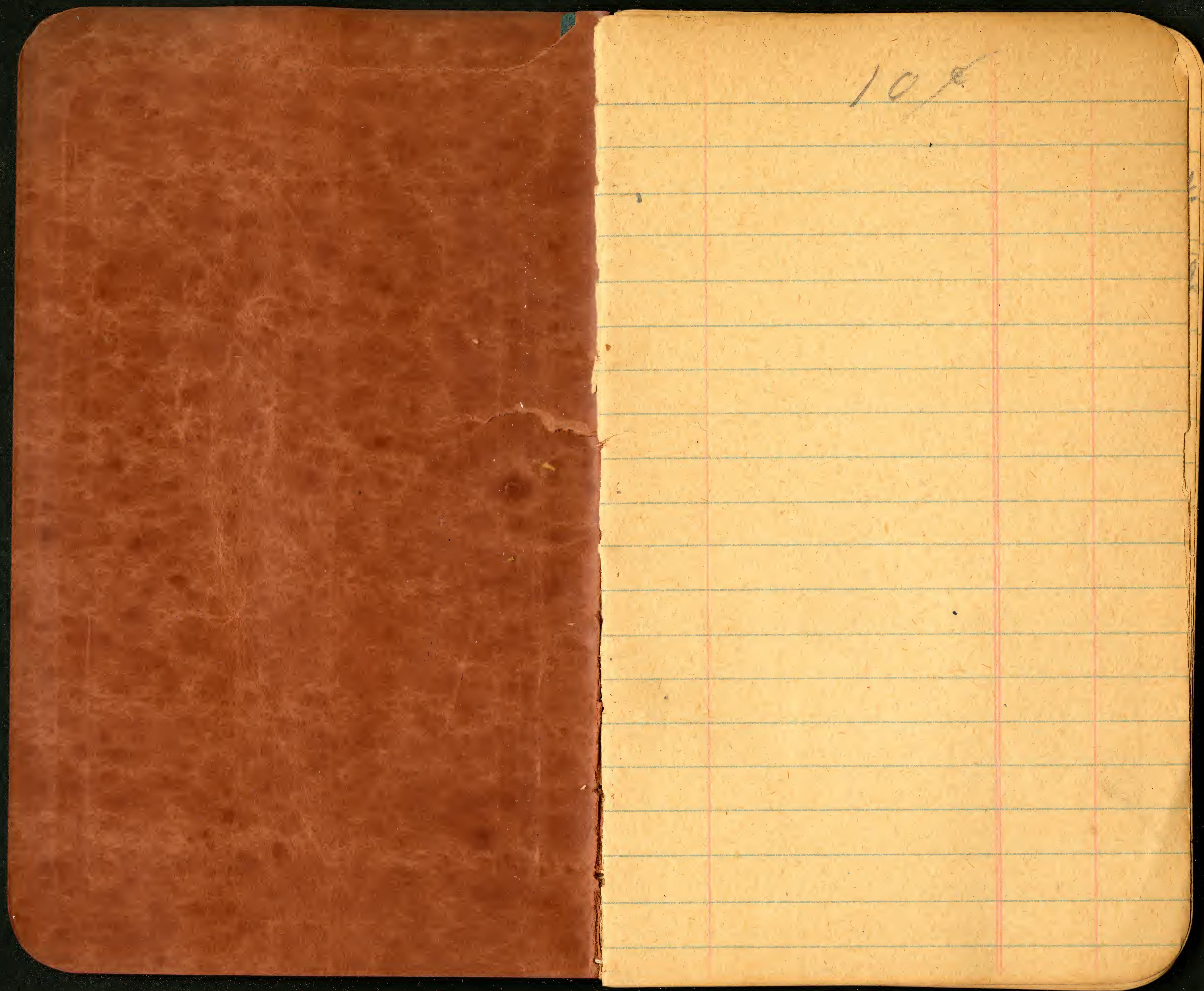




Dull

1887-1

Tampa Flu



Feb 12, 1887.

Bought about 100 specimens of sili-
cified fossils from Ballast Point
from Mr. Newman, Mr. Willcox advancing
the money. There are 30-40 species
in the lot, including two mammalian
teeth which should determine the age of
the deposit. Find nummulites from well in

Feb. 13, 1887 ^{town.}

Go out with Mr. F. J. Lapenotiere
to Orient station on Tampa R.R. about
6 miles east of Tampa. Near here the
railway crosses a stream which is called
Six mile Run, this has cut its way between
banks of limestone 10-12 ft. high with
a covering of sand. 1-3 ft. deep. On the
limestone are few fossils and these in
rare layers among them is the same Ne-
licca found siliicified at Ballast Point
The rocks are evidently of the same age

and in the bed of
Neal, a small stream which runs
from a sulphur spring on La Pintores
land into Six mile Run, is a soft
limestone rock containing casts of shells.
These casts are not very numerous
but include several seen in the
the nummulitic rock taken from
the well in Tampa City, notably
a Galerius and Bulla. From the spring
to the Run is a fall of 12 ft, accord-
ing to Lapenotiere who has had it meas-
ured with a view to putting in a saw.
It comes into the Run about half a
mile below the culvert of the R.R. above
mentioned. At the culvert the stream
is small & narrow, but a little way
below becomes deep and tidal and
wide. At one point there are rocks
on both sides. These are streaked
with bands of chert in which the

fossils are all silicified and there are chalcedonic masses. In other places, the rock contains nothing but cavities representing the shells which have been dissolved away. The species are the same in either case and identical with the silicified ones of Ballast Point.

They are chiefly found at this point with drifted land-shells further up.

The nummulitic rock may be ^{an different oligocene} younger, or the upper part of the same series (Miocene).

Feb 14th 1887

To over to Dr. Knowles' and see specimens of the Miocene rock with casts from several places near there for

Feb. 16th 1887

Driving over from Bradenton to Sarasota and about a mile

from the latter place in the edge of a small ravine half a mile from the sea, encounter the Miocene limestone with moulds of dissolved shells, again.

At Sarasota on the beach near the head of the wharf is an exposure of sandy rock resembling that of Lake Monroe, ^{but occasionally ferruginous} and containing a few indistinctishable vegetable impressions and (probably recent) specimens of *Helix* of the group *Polygyra*. Vincent has come to *Pancaea* from rocks near the town. Human bones from the sand further Feb. 17th 1887 south.

At Osprey along the beach of Little Sarasota Bay south of Judge Webb's there are beds of recent shells, with bits of Indian

pottery among them widely cemented together by a sandy ferruginous matrix. The iron is derived from springs near by and characteristic of these shores. The deposit is without doubt late quaternary.

At the mouth of Little Sarasota Inlet are coquina rocks which extend some way out to sea on each side of the narrow pass. It is said this is the only locality for such rock on the west coast north of Cape Sable.

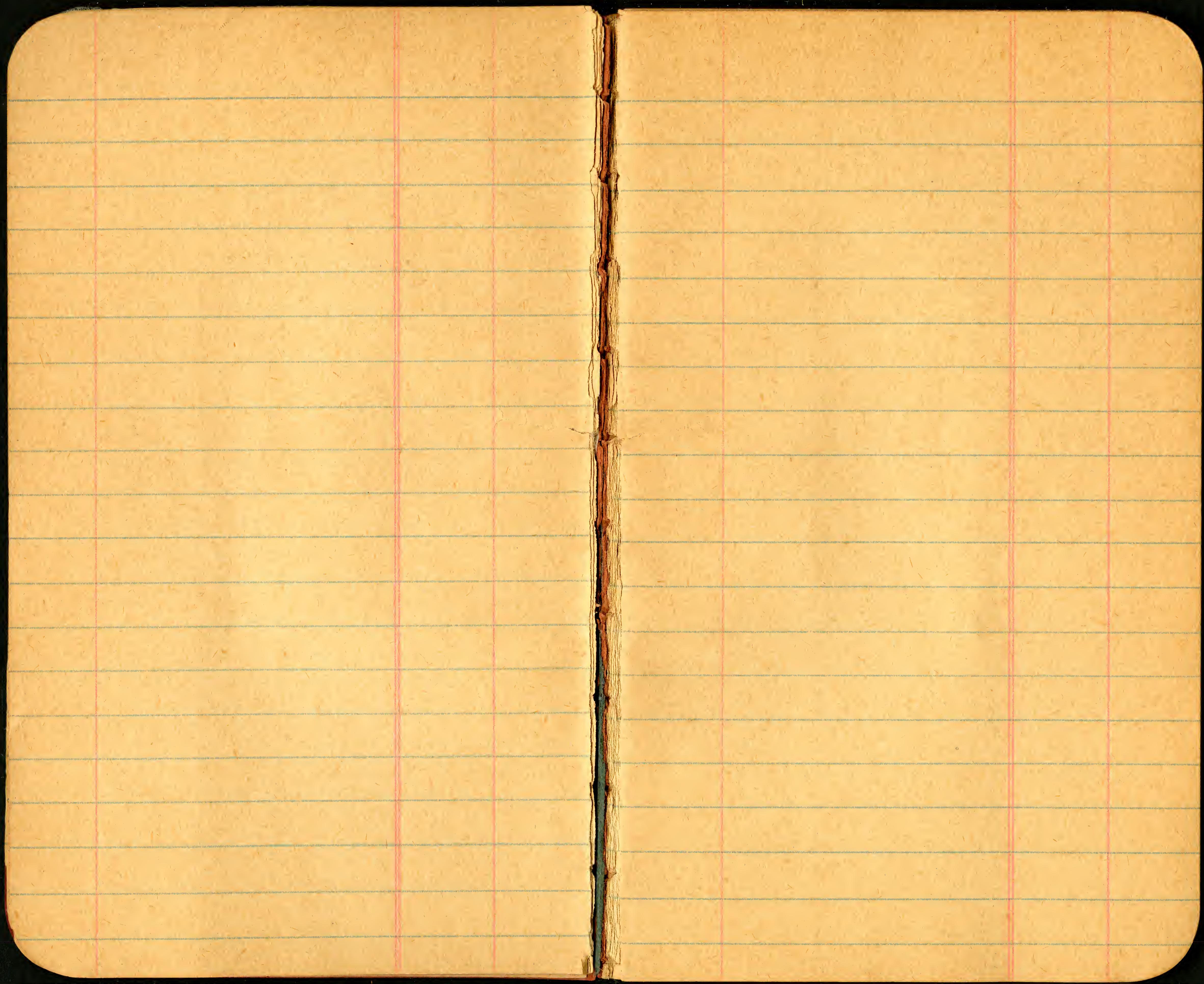
At White Beach, one of the oyster bars in Little Sarasota Bay are internal casts of *Ostrea* *Mytilus*, *Cardium*, *Venus*, etc. this seems to me from the

fossils, not having visited the locality, older than postpliocene to which Mr. Heilprin referred it.

Feb. 18, 1887

Drove over to Dr. Kochler's which is near South Creek, about a mile from where it reaches the bay. Here there is a continuation of the shell bed noted on the bay shore, but not ferruginous. Below it in the bank are large pieces of the quaternary phosphatic rock like that at Sarasota and Enterprise with some marine shells and also polygyra etc in it. A little east of this place the banks are higher and contain more shells, perhaps an old mound. The salt water reaches

this place and oysters grow on
the pieces of rock along the banks
I was too unwilling to go in the
hot sun, further up the stream
to examine the shell deposit
but which can hardly be
but very recent.



Feb 28 - tie up.

ft

1 $\frac{1}{2}$ sand
~~humus~~ ~~humus~~
loose shell

5 $\frac{1}{2}$ ~~shell + rock~~
~~soft rock~~
water

- 1 Top fine white siliceous sand with vegetation. Shows white
- 2 One foot of humus with some sand. Shows black
- 3 Layer of soft decomposed lime rock + sand with *Venus cancellata* &c (shows gray)
- 4 Hard much eroded and cavitated rock with same fossils upper part looks wave worn
- 5 Soft lime rock or marl with same fossils as no 3 but more lime & less sand in proportion & numerous nodules of siliceous no 4

Just below rapids at
Fort Thompson $\frac{1}{2}$ mile or so

Veg. mold + sand $\frac{1}{2}$ ft

Indurated sand few shells 8 in

marined + few mixed 6 in

few limestone 15 in
water

Two miles below
last station S. bank

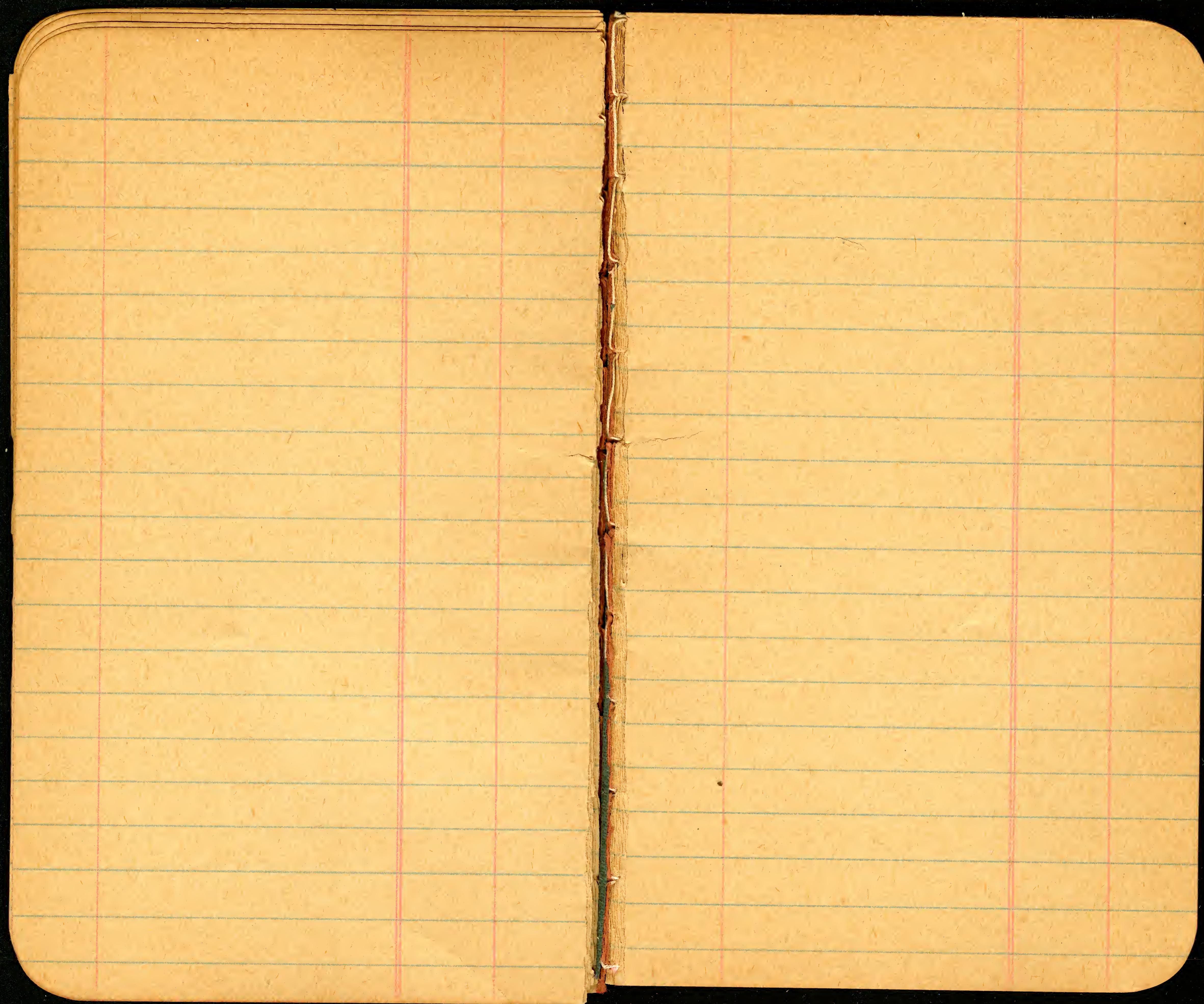
1 ft $\frac{1}{2}$ humus & sand

18 in yellow indurated sand
no fossils

2 ft *Venus cancellata* Bulla
& other marine mostly recent

3 ft marine with silicified
sand nodules & Stroms

18 in nodules & sand to water



Mar 10-11, 1887

Note coquina & sand rock out
side of Little Gasparilla Inlet,
Casey's Pass and point south
of Fisherman's inside of Gasparilla
Living coral to Sarasota

Saturday Mar 12 / 87
Goto White Beach about 5
miles northward from Wells
on mainland shore of Little
Sarasota Inlet. There are
visible at high water mark
on beach about two feet or
less of limestone rock with
a coralling $\frac{1}{2}$ in to 3 in of recent
sand & lime incrustation like that
at St. James. The lime rock is
chiefly full of disturbed casts
or rather molds of shells which
have been dissolved away and
of various corals, corallines
Phyzoa do. In some places
the molds have been filled
with a harder deposit from
around which the matrix
has washed away leaving

tolerable but chiefly distorted
casts of various shells nearly
all bivalves, some identical
with Caloosa-hatchie species
some recent, some extinct.

The deposit is perhaps Pliocene
but not say certainly, not newer.

